

DEPARTMENT OF TRANSPORTATION**Federal Aviation Administration****14 CFR Part 39**

[Docket No. 2002–NM–277–AD]

RIN 2120–AA64

Airworthiness Directives; Raytheon Model Hawker 800XP Airplanes**AGENCY:** Federal Aviation Administration, DOT.**ACTION:** Notice of proposed rulemaking (NPRM).

SUMMARY: This document proposes the adoption of a new airworthiness directive (AD) that is applicable to certain Raytheon Model Hawker 800XP airplanes. This proposal would require replacement of certain existing pitot probes with new probes. This action is necessary to prevent loss or fluctuation of indicated airspeed, which could result in seriously misleading information being provided to the flightcrew. This action is intended to address the identified unsafe condition.

DATES: Comments must be received by November 28, 2003.

ADDRESSES: Submit comments in triplicate to the Federal Aviation Administration (FAA), Transport Airplane Directorate, ANM–114, Attention: Rules Docket No. 2002–NM–277–AD, 1601 Lind Avenue, SW., Renton, Washington 98055–4056. Comments may be inspected at this location between 9 a.m. and 3 p.m., Monday through Friday, except Federal holidays. Comments may be submitted via fax to (425) 227–1232. Comments may also be sent via the Internet using the following address: 9-anm-nprmcomment@faa.gov. Comments sent via fax or the Internet must contain “Docket No. 2002–NM–277–AD” in the subject line and need not be submitted in triplicate. Comments sent via the Internet as attached electronic files must be formatted in Microsoft Word 97 or 2000 or ASCII text.

The service information referenced in the proposed rule may be obtained from Raytheon Aircraft Company, Department 62, P.O. Box 85, Wichita, Kansas 67201–0085. This information may be examined at the FAA, Transport Airplane Directorate, 1601 Lind Avenue, SW., Renton, Washington; or at the FAA, Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-Continent Airport, Wichita, Kansas.

FOR FURTHER INFORMATION CONTACT:

Chris B. Morgan, Aerospace Engineer, Systems and Propulsion Branch, ACE–

116W, FAA, Wichita Aircraft Certification Office, 1801 Airport Road, Room 100, Mid-Continent Airport, Wichita, Kansas 67209; telephone (316) 946–4154; fax (316) 946–4407.

SUPPLEMENTARY INFORMATION:**Comments Invited**

Interested persons are invited to participate in the making of the proposed rule by submitting such written data, views, or arguments as they may desire. Communications shall identify the Rules Docket number and be submitted in triplicate to the address specified above. All communications received on or before the closing date for comments, specified above, will be considered before taking action on the proposed rule. The proposals contained in this action may be changed in light of the comments received.

Submit comments using the following format:

- Organize comments issue-by-issue. For example, discuss a request to change the compliance time and a request to change the service bulletin reference as two separate issues.
- For each issue, state what specific change to the proposed AD is being requested.
- Include justification (*e.g.*, reasons or data) for each request.

Comments are specifically invited on the overall regulatory, economic, environmental, and energy aspects of the proposed rule. All comments submitted will be available, both before and after the closing date for comments, in the Rules Docket for examination by interested persons. A report summarizing each FAA-public contact concerned with the substance of this proposal will be filed in the Rules Docket.

Commenters wishing the FAA to acknowledge receipt of their comments submitted in response to this action must submit a self-addressed, stamped postcard on which the following statement is made: “Comments to Docket Number 2002–NM–277–AD.” The postcard will be date stamped and returned to the commenter.

Availability of NPRMs

Any person may obtain a copy of this NPRM by submitting a request to the FAA, Transport Airplane Directorate, ANM–114, Attention: Rules Docket No. 2002–NM–277–AD, 1601 Lind Avenue, SW., Renton, Washington 98055–4056.

Discussion

The FAA has received several reports of in-flight loss of airspeed indication on Raytheon Model Hawker 800XP airplanes. One report indicated that the

operator reported two occurrences of the following indications while flying the airplane at 41,000 feet in the vicinity of clouds: (1) Mach trim warning, (2) autopilot disconnect, and (3) airspeed indication (lost airspeed indication was on both sides the first time, and was lost on one side with an inaccurate reading on the other side the second time).

The cause of the loss of airspeed indication has been attributed to the freezing over of pitot probes in icing conditions above the 29,000-foot parameter defined in Appendix C of part 25 of the Federal Aviation Regulations (14 CFR part 25). The heater inside the pitot probes is not powerful enough to prevent the accumulation of ice on the probes during conditions of high moisture content and lower temperatures. As ice forms on the pitot probes, it blocks the airflow into the instruments. This condition, if not corrected, could result in loss or fluctuation of indicated airspeed, which could result in seriously misleading information being provided to the flightcrew.

Explanation of Relevant Service Information

The FAA has reviewed and approved Raytheon Service Bulletin SB 34–3412, dated March 2001, which describes procedures for replacement of certain existing pitot probes with new probes having increased heating capability. The replacement includes installing a new ammeter, two new shunts, and improved electrical wiring. Accomplishment of the actions specified in the service bulletin is intended to adequately address the identified unsafe condition.

Explanation of Requirements of Proposed AD

Since an unsafe condition has been identified that is likely to exist or develop on other products of this same type design, the proposed AD would require accomplishment of the actions specified in the service bulletin described previously, except as discussed below.

Differences Between the Service Bulletin and This Proposed AD

The service bulletin recommends accomplishing the replacement “no later than the next 24 month inspection”; however, this proposed AD would require that the replacement be done at the next 24-month inspection, but no later than 6 months after the effective date of the AD. In developing an appropriate compliance time for this proposed AD, we have considered the degree of urgency associated with the